

**Amendments to the Abstract:**

Please replace the Abstract with the following amended Abstract:

**ABSTRACT**

~~Methods and apparatuses for communicating data within measurement traffic are described.~~ The present invention is directed to using measurement packets to compute network performance. Embodiments that send, receive and both send and receive measurement packets are described. Some embodiments are described that compute statistics based at least partly on measurement traffic. Some embodiments are described that communicate computed statistics within measurement traffic. Some embodiments are described that rank and select paths based at least partly on computed statistics.